🖈 یادر تھیں! اب وقت انتہائی کم رہ گیاہے۔

*صرف ایک ماهکے اندر بورڈ امتحان کی مکمل تر

ل شده معسروضی سوالات

کے تمام بورڈ کے لیے(اعلیٰ نمبروں کے حصول کی ضانت)

ہم نے توچراغ جلا کر سسرراہ رکھ دیا اب جس کے جی میں آئے وہی پائے روشنی

Guess papers are handy for practicing. You can solve many guess papers and get an idea about where you stand regarding your exam preparation. You can set a timer to practice Attempting questions within the required limit. With regular practice, your mistakes will be minimal and your speed will increase.

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Objective Type

Encircle the Correct Option.

1) When hydrogen losses its electron to form H+ ion , then it resembles .
a) Semi metals b) Halogens c) Alkali metals ✓ d) Noble gases
2) Hydrogen combine with other element through bond .
a) Ionicb) Covalent 🗸 c) Co-ordinate covalent d) None of these
3) Hydrogen can form bond with element at a time .
a) 1 🗸 b) 2 c) 3 d) 4
4) Hydrogen is placed at the top of elements in group a) HA b) HB c) IA ✔d) IB
5) Hydrogen is a like most of halogens .
a) Solid b) Liquid c) Gas ✓ d) None of these
6) Which one is not a periodic property ?
a) Ionization energy b) Density 🗸 c) Atomic radii d) Hydration energy
7) Which of the following elements has lowest - ionization energy?
a) Beryllium b) Boron 🗸 c) Carbon d) Oxygen
8) Which elements has lowest melting point? a) Beryllium b) Magnesium ✓ c) Calcium d) Barium
9) Which element form an ion with charge + 3?
a) Chromium 🗸 b) Copper c) Lead d) Zinc
10) The strength of binding energy of transition elements depends upon ?
a) Number of electron pairs b) Number of neutrons c) Number of unpaired electrons 🗸 d) Number of protons
11) Alkali metals are .
a) Acidic in nature b) Strong oxidizing agent c) Amphoteric in natured) Strong reducing agents 12) Element (cs) cesium show resemblance with.
a) Ca b) Cr c) Both A & B d) Fr 🗸
13) Which of the following has the highest first ionization energy ?
a) B b) C c) O • d) N
14) As we go from left to right in 4th period , the shielding effect ?
a) First decreases then increases b) Increases regularly c) First increases then decreases d) Remains
constant 🗸 15) Electronic configuration of four elements A,B,C,D are as follows , which will be the most metallic?
a) A = 2, 8, 4 b) B = 2, 8, 6 c) C = 2, 8, 8, 1 ✓ d) D = 2, 8, 8, 7
16) Which of the following has the highest melting point?
a) NaCl b) NaBr c) Nal d) NaF 🗸
17) Out of Na , Mg , Na+1 & $\mathrm{Mg^{+2}}$, the highest ionization energy is of .
a) Na b) Na ⁺ c) Mg d) Mg ⁺² 🗸
18) The second electron affinity of oxygen is .
a) -141 kJ mol ⁻¹ b) +780 kJ mol ⁻¹ ✓ c) -337 kJ mol ⁻¹ d) +29 kJ mol ⁻¹ 19) Which one of the following elements can have only negative oxidation states.
a) Br b) F 🗸 c) I d) Cl
20) In down cell CaCl ₂ is added to N2Cl to
a) Increases solubility b) Increase conductivity c) Increase the dissociation d) Lower its melting point 🗸
21) In Down's cell if moisture is present then , most likely products are .
a) Na, Cl ₂ \checkmark b) NaOH, H ₂ , Cl ₂ c) Na, HCl d) H ₂ O ₂
22) Sodium when dropped in water catches fire because .
a) It is a metal b) It is highly electropositive in nature c) It has high electron affinity d) H2 gas is eveloved in the reaction which catches fire due to exothermic reaction \checkmark
23) Metallic luster exhibited by Na is explained by .
a) Diffusion of sodium b) Excitation of free protons c) Oscillation of loose electrons d) Existence of body
centered cubic lattice
24) When NaCl is dissolved in water , sodium ion becomes
a) Oxidized b) Hydrolyzed c) Hydrated 🗸 d) Reduced
25) Which of the following reaches at the anode during the electrolyses of brine in Nelson's cell . a) H2 b) Na c) Cl2 \checkmark d) O ₂
26) In Nelson's cell the solution coming out of cathode compartment contains 16% NaCl, the % age of
NaOH in the solution is .
a) 11 % 🗸 b) 84 % c) 50 % d) 2 %
27) Which is the most important by product in the manufacturing of NaOH?
a) Na ₂ CO ₃ b) Cl ₂ ✓ c) KOH d) K ₂ CO ₃
a) Down cell b) Diaphragm cell ✓ c) Both A & B d) None of these
29) The aqueous solution of Borax.
a) Acidic b) Alkaline c) Amphoteric ✓ d) Manual
30) Which is used in the leather industry?

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a) Tetra boric acid b) Borax 🗸 c) Boric acid d) Boric oxide	
31) The compound formed in Borax bead test is . a) Metal metaborate ✓ b) Metal boride c) Metallic boron d) Boron oxide	
a) Metal metaborate ✓ b) Metal boride c) Metallic boron d) Boron oxide 32) The formula of pyroboric acid is .	
a) H ₃ BO ₃ b) HBO ₂ c) H ₂ B ₄ O ₇ d) H ₆ B ₄ O ₉ ✓	
33) Borax can be prepared by reacting boric acid with .	
a) Caustic soda b) Caustic potash c) Soda ash 🗸 d) Lunar caustic	
34) Borax bead test is not performed for .	
a) Cu b) Ni c) Zn 🗸 d) Co	
35) Borate glass contains .	
a) H ₃ BO ₃ b) Ca ₂ B6O ₁₁ c) HBO ₂ d) Borax ✓	
36) The solubility of Borax at 1000C is . a) 1400 gram in 100 gram of H ₂ O b) 4 gram in 100 gram of H ₂ O c) 99 gram	m in 100 gram of H ₂ O d) 99 3 gram
in 100 gram of H ₂ O	100 gram or 1120 a) 00.0 gram
37) Which of the following does not form boric acid?	
a) Borax + HCl b) Borax + H₂SO₄ c) Borax + H₂O d) Borax + Copper ✔	
38) Which of the following is soluble in water?	
	n Dioxoborate
39) Orthoboric acid when heated to red hot gives. a) Boric anhydride ✓ b) Pyroboric acid c) Metaboric acid d) Tetraboric	orio goid
 a) Boric anhydride ✓ b) Pyroboric acid c) Metaboric acid d) Tetrabe 40) If saturate solution of Borax is allowed to crystallize above 620C, cr 	
a) Decahydrate b) Pentahydrate \checkmark c) Hepthadrate d) Anhydraous	ystais obtained are .
41) Which of the following radicals give blue colour (in cold and hot state	te) in oxidizing flame when
subjected to Borax Bead test ?	, o
a) Cu ⁺² • b) Co ⁺² c) Cr ⁺³ d) Ni ⁺²	
42) Which of the following is non metal?	
a) B 🗸 b) Al c) Ga d) In	
43) Aluminum is corroded in coastal places near the sea, because protect	
a) Reacts with sea water b) Is removed by sea water c) Reacts with sar present in sea water \checkmark	nd particles d) Is attacked by salt
44) In electrolysis of alumina , cryolite is added .	
	To increase electrical conductivity
d) To remove impurity form alumina	•
45) Which of the following statements is correct?	
a) Aluminiumis used for making ships b) Aluminium is less conductor of electric	-
used to remove air bubbles form molten metals in their extraction methods excellent oxidizing agent	d) Aluminium is an
46) When Al us added to KOH solution.	
a) O₂ is evolvedb) H₂O is produced c) H₂ is evolved d) No reaction occ	curs
47) Which of the following is not characteristic property of carbon?	
a) Multiple bond formation b) Catenation c) Highest electronegative elemen	nt of group d) Availability of d
orbital for bonding	
48) The melting point of Sn and Pb is less as compared to group III elem a) They are large in size b) They do not use four valence electrons ✓ c)	
metals	They are metallolds of they are ar
49) Opal is a hydrated variety of	
a) Silicon b) Sandc) Quartz d) None of these	
50) Carbon have tendency of linkage of identical atoms, which is called	
a) Catenation b) Self linkage c) Both A & B 🗸 d) None of these	
51) What is % age of calcium phosphate in bone ash?	
a) 20 b) 40 c) 80 d d) 60	
 52) Which of the following is not the property of phosphorous? a) It means light beaing b) Rich source of phosphorous in bone ash ✓ 	It does not exist free in nature
d) It does not exist in allotropic	Tr does not exist nee in nature
53) Phosphorous has the oxidation number +3 in .	
a) Metaphosphoric acid b) Phosphorous acid 🗸 c) Orthophosphoric acid d)) Pyrophosphoric acid
54) Which allotropic form of phosphorus is very reactive & poisnonous?	
a) Red b) Black c) Violet d) White ✓	
55) Molecular formula of white phosphorus is .	
a) P4 b) P c) P3 d) P2 56) Which phosphorous is most stable ?	
a) White b) Black 🗸 c) Red d) All are equal	
57) Which of the following shows phosphorescence ?	
a) Yellow P b) Black P c) White P d) Red P	
58) The most poisonous form of phosphorous is .	
a) White 🗸 b) Red c) Black d) Amorphous	
59) In contact process inpurities of Arsenic are removed by .	
a) Fe(OH) ₃ ✓ b) Al(OH) ₃ c) Cr(OH) ₃ d) Fe ₂ O ₃	
60) The volatility of H2SO4 is low due to .	

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a) Strong bonds b) Covalent bonds c) High molecular massd) Hydroger	
61) Cons . H2SO4 dehydrate the oxalic acid into . a) CO₂ + H₂O b) CO + H₂O c) C + H₂O d) CO + CO₂ + H₂O ✓	
62) If current is allowed to pass through pure conc . H2SO4 . It behaves as	5 .
a) Good conductor b) Weak conductor c) Non conductor ✓ d) Ionize int	o H ⁺ & HSO4 ⁻¹
63) Which one of the following is wrong statement about H2SO4? a) Sulphonating agent b) Reducing agent c) Highly viscous d) Oxidizing 	agent
64) Which compound will give carbon with concentrated H2SO4?	agent
a) Starch ✓ b) Ethy1 Alcohol c) Oxalic Acid d) Formic Acid	
65) Which of the following is called oil of vitriol? a) H2S b) H ₂ SO ₃ c) H ₂ SO ₄ ✓ d) HNO ₃	
66) At 180C the specific gravity of H2SO4 is .	
a) 1.891 b) 1.834 c c) 2.101 d) 1.740	
67) When sugar in treated with Conc . H2SO4 , it becomes black due to . a) Decolourization b) Dehydration ✓ c) Hydrolysis d) Hydration	
68) Which of the gas cannot be dried over conc . H_2SO_4 ?	
a) SO_2 b) N_2 c) NH_3 \checkmark d) H_2 69) Formula of oleum is .	
a) H_2SO_4 b) $H_2S_2O_7 \checkmark$ c) $H_2SO_4 + SO_3$ d) None of these	
70) Which halogen occur naturally in positive oxidation state?	
a) F b) Cl c) Br d) I ✔ 71) Which is the strongest oxidizing agent in the following?	
a) I ₂ b) CI ₂ c) F ₂ d) Br ₂	
72) Which of the following halogens will not form oxyacid?	
a) Cl b) F ✔ c) Br d) l 73) All halogens act as oxidizing agents when .	
a) They combine with non - metals b) They combine with metals c) They com	bine with noble gases d)
Both A & C✔ 74) Which silver salt is sparingly soluble in H2O ?	
a) AgF b) AbBrc) AgCl 🗸 d) AgI	
75) In the preparation of Cl2 from HCl , MnO2 acts are .	
 a) Reducing agent	agent
a) HF b) HCl c) HBr d) HI	
77) Which one is perchloric acid ?	
a) HClOb) HClO₂ c) HClO₃ d) HClO₄ ✓ 78) Which one is chlorous acid ?	
a) HClOb) HClO₂ c) HClO₃ d) HClO₄ ✔	
79) The weakest oxyacid of Cl is . a) HclO b) HClO₂ c) HClO₃ d) HClO₄	
80) The decomposition of potassium chlorate is a disproportionation reacti	ion which gives .
a) KCl + O₂ ✓ b) KClO₂ + KCl c) KCl + Cl₂ d) KClO + KCl	
81) Which of the following cannot be bleasched by the bleacing powder? a) Cotton b) Paper pulp c) Linen d) Silk ✓	
82) For bleaching powder which statement is incorrect?	
	ow coloured powder d)
Oxidizing agent 83) Which acid has highest boiling point?	
a) HF 🗸 b) HBr c) HCl d) HI	
84) Oxidation state of Cu in K2[Cu(CN)4] in. a) +4 b) +3 c) +2 ✓ d) +6	
85) Group VII-B of transition elements contains.	
a) Cu , Ag , Au b) Mn , Tc , Re 🗸 c) V , Nb , Ta d) Fe , Ru , Os	
86) Fe+3 is strongly paramagnetic and has. a) 2 unpaired electrons b) 4 unpaired electrons c) 3 unpaired electrons d) 5 unpaired	ed electrons 🗸
87) Transition elements form complexes because they have .	
 a) Small sizes b) Vacant d - orbitals ✓ c) Strong binding energy d) Large nucleon 88) The maximum oxidation state is shown by which of the following trans 	
a) Chromium b) Iron c) Cobalt d) Managanese ✓	sition elements :
89) Which one of the following ions is colourless?	
a) Sc ⁺³ ✓ b) Ti ⁺³ c) V ⁺³ d) Cr ⁺³ 90) Which of the following pairs is strongly paramagnetic?	
a) Mn^{+2} , Fe^{+2} b) Mn^{+3} , Fe^{+2} c) $Mn+2$, $Fe+3$ \checkmark d) $Mn+3$, $Fe+3$	
 91) Zn⁺² salts are colourless due to . a) No unpaired d - electrons ✓ b) All d - orbitals are empty c) All d - electrons a 	are unnairedd) Tow do arbitala ara
hydridized	aro umpameduj row u - orbitais are
92) Which is more acidic oxide in following .	
a) MnO b) Mn ₂ O ₃ c) MnO ₂ ✓ d) Mn ₂ O ₇ 93) Steam cracking will produce.	
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a) Cyclic compounds b) Lower unsaturated bydrocarbons 🗸 c) Aro	matic compoundsd) Branched compounds
94) Gasoline of higher octane number is produced by .	
a) Thermal cracking b) Catalytic cracking ✓ c) Steam cracking	d) Reforming
95) The reaction $C_8H_{18} \rightarrow C_3H_6$ + Fragments is .	
a) Catalytic oxidation b) Isomerization c) Synthesis d) Cra	
96) Breaking down of large molecule by beating at high temper cracking.	erature and pressure is called
a) Thermal 🗸 b) Catalytic c) Steam d) None of these	
97) The fractional distillation of petroleum yield only about	gasoline.
a) 10 % b) 20 % 🗸 c) 30 % d) 40 %	-
98) -SH functional group is called	
a) Carboxy 1 b) Nitroc) Mercapto 🗸 d) Cyano	
99) The group of -C \equiv N is .	
a) Mercapto b) Cyano 🗸 c) Nitro d) None of these 100) Which of the following is an example of alkanal?	
a) Acetaldehyde 🗸 b) Alcohol c) Acetone d) Phenol	
101) The state of hybridization of carbon atom in Ethyne.	
a) sp 🗸 b) sp ₂ c) dsp ₂ d) sp ₃	
102) The bond angle between any two Hybridized Orbitals is o	of.
a) 1800b) 109.50 c) 1200 🗸 d) 107.50	
103) Carbon atom of carboxuI group is .	
a) sp₃ hydridized b) sp₃d hydridized c) sp₂ hydridized ✓	d) sp hydridized
104) The state of hybridization of " C " in ethane is .	
a) sp ₃ ✓ b) sp c) sp ₂ d) dsp ₃ 105) The state of hybridization of carbon in ethylene is .	
a) sp ₃ b) sp ₂ \checkmark c) sp d) dsp ₂	
106) The Carbon of CarbonyI Group is .	
a) Sp₃ Hybridized b) Sp Hybridized c) Sp₂ Hybridized ✓	d) dSp ₂ Hybridized
107) The state of hybridization of carbon atom in ethane is	
a) sp_3 b) $sp_2 \checkmark$ c) sp d) ds_{p2}	
108) Carbon atom in which of the following is sp2 - hybridized	I
a) CH_3CN b) $CH \equiv CH$ c) $HCOOH \checkmark$ d) CH_2CI_2	
109) How many sigma electrons present in ethylene?	
a) 2 b) 5 c) 8 d) 10 🗸 110) Number of possible chain isomers of alkane C5H12 are .	
a) 2 b) 3 \checkmark c) 4 d) 5	
111) Ethers show the phenomenon of	
a) Position isomerism b) Metamerism c) Cis - trans isomerism	d) Functional group isomerism 🗸
112) Both CH ₃ COOH and CHOOCH ₃ show isomerism .	,
a) Postion b) Chain c) Geometric d) Functional group 🗸	•
113) The hydrocarbon having octane number 100 is .	
a) Neo - octane b) n - hexane c) Neopentane d) Iso - octane	
a) 2 b) 5 c) 4 d) 3	
115) Which isomerism can be possible for 2 - chloro 3 - methy	rI butane ?
a) Functional group isomerism b) Position isomersm 🗸 c) Chain isom	
116) n - butyI alcohol and diethyI ether are .	
a) Geometric isomers b) Functional group isomers 🗸 c) Position iso	•
117) The compound having molecular formula C_6H_{14} has chain	isomers .
a) 6 b) 4 c) 5 🗸 d) 3	
118) Glucose and fructose are isomers.	mara d) Matamara
 a) Chain isomers b) Functional group isomers ✓ c) Position iso 119) The isomeris shown by alkanes is 	mers d) Metamers
a) Skeletal / b) Position c) Geometric d) Metamerism	
120) For a ketone having molecular formula C5H10O , the nun	nber of possible metamers are
a) 2 v b) 3 c) 4 d) 5	P. C.
121) Alkenes are also called .	
a) Paraffins b) Olefins 🗸 c) Earbenes d) Carbonyl compoun	d
122) Hydrolysis R-MgX gives .	
a) Alkene b) Alkanes 🗸 c) ALkyne d) Alcohol	
123) Lindlar's catalyst is .	d) Ph/Raso Quinona
a) Ba/PbSO ₄ b) Pd/PbSO ₄ Quinone c) Quinone Pd/PbSO ₄ ✔ 124) Symmetrical alkanes are prepared by .	d) Pb/BaSO ₄ Quinone
a) Kolbe's reaction b) Clemensen reaction c) Wurtz reaction	d) Both A & B✔
125) The most reactive halogen in the halogenation of alkane	•
a) Cl ₂ b) Br ₂ c) l ₂ d) None of these	· · · · · · · · · · · · · · · · · · ·
126) Sabatier-Sendern's reaction can be used to prepare.	
a) Alkyne b) Alkanes 🗸 c) Alkenes d) Alkenes and Alkyne	
127) The dehydration of tertiarty alcohols is carried out with .	
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a) 20 % H ₂ SO ₄ b) 35 % H ₂ SO ₄ c) 30 % H ₂ SO ₄ d) 25 % H ₂ SO ₄	
128) Which one is not property or uses of mustard gas?	I) High hailing see .
a) Used in 1st world war b) High boiling liquid c) Powerful vesicant d 129) When I-chloropropane is reacted with alcoholic KOH, the product	
a) Propane b) Propene c) Propyne d) Butane	obtained is .
130) Electrolysis of aqueous solution of potassium acetate gives .	
a) C_3H_8b) C_2H_2c) C_2H_4d) C_2H_6	
131) Baeyer's reagent is used to identify .	
a) Ethene ✔ b) Methane c) Ethane d) Ethnol 132) When acetylene reacts with acetic acid, the product form is.	
a) Acrylic acid b) Acrylo nitrile c) Vinyl acetate 🗸 d) Ethyl acetate	
133) The presence of double bond in alkenes cannot be identified by .	
a) Br₂ water b) KMnO₄ + H₂O c) Ozonolysis d) Tollen's test ✔	
134) The most likely product of addition of H - Cl to 2-methyl-2-butene	
a) 3 - Chloro - 2 - methyl butane b) 1 - Chloro - 2 - methyl butane c d) 3 - Chloro pentane) 2 - Chloro - 2 - methyl butane♥
135) The ease of dehydration of alcohol to produce alkene is .	
a) Primary > Secondary > Tertiary b) Secondary > Tertiary > Primary c) Tertiary > Primary > Secondary
d) Tertiary > Secondary > Primary ✔	
136) Addition of O₂ in ethane in the presence of Ag gives . a) Ethylene oxide ✓ b) Ethane c) Ethanol d) Acetic acid	
137) Which of the following when reacted with ozone produces methan	al ?
a) Methane b) Ethane \checkmark c) Ethene d) Ethyne	
138) Ozonolysis of ethene causes breaking of C - C bond , the product is	
	ne chlorohydrin
139) Which of the following gases is powerful vesicant?	
a) Marsh gas b) Mustard gas ✓ c) Ozonide d) Butane 140) MethyI 1,3 Butadiene is called.	
a) Stgrene b) Cumene c) Chloroperene d) Isoperene ✓	
141) Which of the following is the major product when HBr reacts with	2-butene ?
a) 2-bromobutane ✔ b) 1,1 bromobutane c) 1-bromobutane d) 1, 2 b	romobutane
142) Which compound is the most reactive?	
a) Benzene b) Ethene ✓ c) Ethane d) Ethyne 143) When calcium carbide is treated with water we get.	
a) Ethyl formate b) Acetaldehyde c) Ethylene d) Ethyne 🗸	
144) Which of the following is used for the manufacturing of polyvinyI of	chloride ?
a) Ethylene b) Propylene c) Ethyne 🗸 d) Ethane	
145) 2,3 - dibromo butane gives 2-butyne when it is treated with .	
a) Zn b) H ₂ SO ₄ c) Aqueosu KOH d) Alcohol + KOH ✓ 146) Ethyne when passed into the solution of cuprous chloride and NH4	Cl. it sives
a) Methyl nitrile b) Acrylonitrile c) Vinyl Acetylene 🗸 d) Benzene	ci, it gives .
147) Which of the following is liquid at room temperature?	
a) Ethyne b) Propyne c) Butyne d) Pentyne 🗸	
148) The number of sigma and Pi bond in 1 - butene 3 - yne are.	10.5
a) 8 - sigma and 2 Pi b) 7 - sigma and 3 Pi C) 5 - sigma and 5 Pi d) 6 - sig	ıma and 2 Pi
a) It readily catches fire b) It is explosive \checkmark c) It is highly volatile d	I) It is not very reactive
150) Addition of water to acetylene takes place in presence of .	, it is not very reasons
a) Ni b) HgSO ₄ /H ₂ SO ₄ 🗸 c) ZnCl ₂ d) Cu	
151) Polymerization of acetylene forms .	
a) Propane b) Butane c) Benzene d) Acetaldehyde	
152) Conversion of unsaturated hydrocarbon to saturated hydracarbons a) Halogenation b) Hydrogenation c) Hydroxylation d) Dehyd 	in presence of catalyst is called. Irogenation
153) Benzene can be prepared by polymerization of .	nogenation
a) Ethene b) Ethane c) Acetylene 🗸 d) Propene	
154) The reaction of bromobenzene with ethyI bromide in the presence	of Na in dry ether will give .
a) Toluene b) Benzene c) Xylene d) Ethyl benzene 🗸	
155) Oxidation of ethyl benzene in presence of KMnO4 gives .	: 4 0
a) Phenol b) Benzyl alcohol c) Benzoic acid ✓ d) Maleic anhydr 156) Which one is not a meta directing group?	iue
a) -COOH b) -CHO c) -CORd) -NH2 🗸	
157) Molecular formula of benzyI chloride .	
a) $H_5C_6CCl_3$ b) $H_5C_6HCl_2$ c) $H_5C_6CH_2Cl$ \checkmark d) $H_5C_6H_2CH_2Cl$	
158) The \pi - electrons of benzene are not readily available for weak el	
a) sp2 hydridization b) Planar hexagonal structure c) Delocalization of electrical Conference of the c	rons 🗸 d) Conjugation
a) PCl ₅ b) PCl ₃ c) AlCl ₃ ✓ d) Al(OH) ₃	
160) The reaction of benzene with ozone finally gives.	
a) Glyoxal b) Glycol c) Glycerol d) Benzoic acid	
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161) Which one is not an ortho and para directing group?	
a) -NH₂ ✔ b) -OH c) -OCH₃ d) -CHO 162) Nitration of Nitrobenzene at 950C will give .	
a) 1,2 dinitrobenzene b) 1,4 dinitrobenzene c) 1,3 dinitrobenzene d) 1,2,6 di	nitrohenzene
163) Which of the following is not easily sulphonated ?	
a) Para-xylene b) Meta-xylene c) Ortho-xylened) Benzene 🗸	
164) Which of the following is not an electrophile?	
a) BF ₃ b) AlCl ₃ c) ZnCl ₂ d) NH ₃ ✓ 165) The compound that is nitrated with difficult is .	
a) Toluene b) Nitrobenzene 🗸 c) Benzene d) Phenol	
166) Which of the following groups is an ortho and para directing in disub	ostitution benzene ?
a) -COOH b) -N+ R3 c) NH2 ✔ d) -NO2	
167) If B forms glyoxal when it is treated with ozone , then B is a) Ethene b) Ethyne c) Benzene ✔ d) Cyclohexane	
168) Ortho and para derivative are obtained by halogenation of .	
a) Nitrobenzene b) Toluene 🗸 c) Benzaldehyde d) Benzene	
169) The reactivity of alkene is due to and availability of \pi ele	ectron for electrophilic reaction
- a) \pi bond ✔ b) Covalent bond c) Ionic bond d) None of these	
170) does not undergo polymerization .	
a) Benzene 🗸 b) Alkene c) Alkane d) None of these	
171) Benzene is highly compound and at the same time it is ve	ry stable molecule .
a) Saturated b) Unsaturated c) Organic d) None of these	
a) Halogenation b) Sulphonation c) Oxidation ✓ d) Reduction	
173) Which compound is the most reactive one?	
a) Benzene b) Ethene 🗸 c) Ethane d) Eth <mark>yne</mark>	
174) When ethyI iodide reacts with sodium methaoxide it gives .	
a) Methyl ethyl ether /b) Ethyl iodide c) Diethyl ether /b) Ethernol	
a) SOCl ₂ ✓ b) ZnCl ₂ /HCl c) PCl ₃ d) Cl ₂ /CCl ₄	
176) AlkyI halide can be prepared by the halogenation of	
a) Alkane 🗸 b) Alkene c) Alkyne d) None of these	
177) Alcohols may be converted to the corresponding alkyI halides by the	<mark>e acti</mark> on of halogen acid in the
presence of . a) V ₂ O ₅ b) PCl ₃ c) ZnCl ₂ ✓ d) None of these	
178) Alcohols react with SOCI2 in the presence of	
a) ZnCl ₂ b) Pyridine 🗸 c) Amylase d) None of these	300
179) SN2 Mechanism involves .	
a) 1st order kinetics b) 2nd order kinetics c) 3rd order kinetics d) Zero ord	der kinetics
180) An alkyI halide can be converted into alcohol by . a) Addition b) Substitution ✓ c) Elimination d) Dehydrogenation	
181) In SN1 reaction , the first step is the formation of .	
a) Carbanion b) Free radical c) Carbocation 🗸 💮 d) None of these	1.
182) Which of the following is a poor leaving group?	
a) -H _s O ₄ b) -I c) -NH ₂ ✓ d) -Br 183) Which of the following compounds undergo an elimination reaction v	when treated with hot ethanolic
potassium hydroxide ?	when treated with not ethanolic
a) Br - CH ₂ - Brb) Br ₃ C - CBr ₃ c) $\frac{(CH_3)_2C}{2}$ = CBr2 d) CH ₃ - CH ₂ - Br \checkmark	
184) SN2 reactions can be carried out with .	
a) Primary alkyl halide b) Tetiary alkyl halide c) Secondary alkhyl halide 185) \beta - elimination is bimolecular elimination when it involves.	d) Any type of alkyl halide
	Zero order kinetics
186) Reaction of alkyI halide with NH3 gives .	
a) Nitriles b) Amines 🗸 c) Nitro alkane d) Imine	
187) Hydrolysis of Ter. ButyI bromide follows SN1 mechanism. The rate i	
a) Greater with OH- b) Greater with alkhyl halide ✔c) Greater with H2O d) 188) Which is a good leaving group?	Equal with On- and H ₂ O
a) I- ✓ b) OH- c) RO- d) NH2 -	
189) What will be the mechanism of the reaction? C2H5I + 2NH3 \righta	rrowC2H5NH2 + NH4I
a) SN₁ b) Nucleophilic addition c) SN₂ ✓ d) Electrophilic substitution	
190) During SN_2 mechanism carbon atom changes its hybridization from .	
a) $sp \rightarrow sp_2$ b) $sp_2 \rightarrow sp_3 \checkmark c$) $sp_3 \rightarrow sp_2$ d) $sp_3 \rightarrow sp$ 191) In elimination reaction of alkyI halide, the site more susceptible for	the nucleonhilic attack is
a) α - carbon b) α - hydrogenc) β - carbon d) β - hydrogen \checkmark	the nucleophilic attack is .
192) Which one may not act as electrophile?	
a) NH^{4+} b) BF_3 c) NH_3 \checkmark d) H^+	
193) Which one is not a nucleophile?	
a) NH ₃ b) H ₂ S c) H ₂ O d) BF ₃ ✔	
CREATIVE SOLUTIONS PK COM	NTACT: 0301-8707869

194) SNA-reactions are easily given by . a) Primary alky halidase	CHEMISTRY 2 ND YEAR GUESS PAPER	ACCORDING TO ALP
195) CH, - CH, - CH, - CH, - Clo nreaction with alcoholic KOH gives a) 2-Butane 01 - Butane 01		d) Tartians alled ball-land
a) 2-Butanol b) 2-Butano c) 1-Butano c) 1-Butano d) 2-Butanol		u) Tertiary alkyi halides 🗸
a) Three hydrogen atoms b) One hydrogen atomsol No hydrogen atoms		
197) Lucas reagent used to distinguish the pri , sec & ter alcohol consists of . a) HBr & MgC ; b) HBr & ZnC ; c) HCl & ZnC ; d) HCl & MgC; 198) Primary , secondary and tertlary alcohols can be distinguished by . a) Tollen's Test b) Lucas Test c) Felhills Solution Test d) loudorm Test 199) Which compound will not give lodoform test on on treatment with I2.NaOH ? a) Acetaldehyde b) Acetone c) Butanne d) Methanol ∨ 200) Which liquid is called wood spirit ? a) CH ₂ OH ∪ CH ₂ OH c) CH ₂ COOH d) CH ₃ O - CH ₃ 201) is used as a solvent for fats oils, paints, varnishes . a) Methanol ∨ b) Ethanol ∨ c) Propanol d) None of these 202) Is used as drink in some countries . a) Methanol b) Ethanol ∨ c) Propanol d) None of these 203) Ethanol Is also used in the of specimen. a) Preparation b) Preservation ∨ c) Both A & B d) None of these 204) Dry distillation of calcium acetate gives . a) Methanol b) Ethanol ∨ c) Acetone ∨ d) Methanol 205) Dry distillation of calcium acetate gives . a) Methanol b) Ethanol ∨ c) Acetone ∨ d) Methanol 206) Promamint contains b) Formaldehyde and Fructose c) Formaldehyde and Menthol d) Permandehyde and Acetone and 207) Catalysta used for the laboratory preparation of formaldehyde is a locasistic pair of the laboratory preparation of formaldehyde is a locasistic pair of the laboratory preparation of formaldehyde is a locasistic pair of the laboratory preparation of formaldehyde is a leader of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of formaldehyde is a leader pair of the laboratory preparation of the laboratory preparation of the laboratory preparation of the laborator		
a) HBR à MgGls b) HBR à ZnGls c) HGl à ZnGls v d) HGl à MgGls 1989 Primary , secondary and tertiary alcohols can be distinguished by . a) Tollon's Test b) Lucas Test v d) Folhing Solution Test d) Ioddorm Test 1999 Which compound will not give load-form test on on treatment with 12.NaOH? a) Acetaldehyde b) Acetane c) Butanone d) Mothanol v 2000 Which liquid is called wood spirit? a) CHs de Harbanol v b) CHs de Ol CHs COOH d) CHs de Ol		
198) Primary , secondary and tertiary alcohols can be distinguished by . a) Tollen's Test b) Lucas Test ≠		
1993 Which compound will not give iodoform test on on treatment with 12.NaOH?	198) Primary, secondary and tertiary alcohols can be distinguished by .	
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222) Which of the following aldehydes is used to prepare urotropine medicine? a) Acetaldehyde b) Acetone c) Formaldehyde ✓ d) Enthyl alcohol 223) is used silvering of mirror. a) Acetaldehyde b) Ketone c) Formaldehyde ✓ d) Both A & C 224) % aqeous solution called formalin. a) 30 % b) 40 % ✓ c) 50 % d) 60 % 225) is used in making formamint. a) Ketone b) Acetaldehyde c) Fomaldehyde ✓ d) None of these 226) is used in the processing of anti-poliovaccine. a) Formaldehyde ✓ b) Acetaldehyde c) Ketone d) None of these 227) is used to make phenolic resins and synthetic drugs.	T .	ig potassium citrate c)
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a) Acetaldehyde b) Ketone c) Formaldehyde \(\begin{align*} \ d \end{align*} \) Both A & C 224) % aqeous solution called formalin . a) 30 % b) 40 % \(\begin{align*} c) 50 % d) 60 % 225) is used in making formamint . a) Ketone b) Acetaldehyde c) Fomaldehyde \(\begin{align*} d \end{align*} d) None of these 226) is used in the processing of anti-poliovaccine. a) Formaldehyde \(\begin{align*} b \end{align*} b) Acetaldehyde c) Ketone d) None of these 227) is used to make phenolic resins and synthetic drugs .		
224) % aqeous solution called formalin. a) 30 % b) 40 %		
a) 30 % b) 40 % c) 50 % d) 60 % 225) is used in making formamint . a) Ketone b) Acetaldehyde c) Fomaldehyde d) None of these 226) is used in the processing of anti-poliovaccine. a) Formaldehyde b) Acetaldehyde c) Ketone d) None of these 227) is used to make phenolic resins and synthetic drugs .		
a) Ketone b) Acetaldehyde c) Fomaldehyde \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	a) 30 % b) 40 % 🗸 c) 50 % d) 60 %	
226) is used in the processing of anti-poliovaccine. a) Formaldehyde b) Acetaldehyde c) Ketone d) None of these 227) is used to make phenolic resins and synthetic drugs.		
a) Formaldehyde		
	a) Formaldehyde	
CREATIVE SOLUTIONS DK CONTACT: 0201-9707940	227) is used to make phenolic resins and synthetic drugs .	
	CREATIVE SOLUTIONS PK CONT	

CHEMISTRY 2 ND YEAR GUESS PAPER	ACCORDING TO ALP
a) Acetaldehyde 🗸 b) Ketone c) Both A & C d) None of these	
228) Ethanol can be converted into Ethnoic acid by .	
a) Fermentation b) Hydration c) Hydrogenation d) Oxidation ✓ 229) Organic compounds containing -CN group are called.	
a) Cyanides b) Nitrites c) Nitrates d) Nitriles 🗸	
230) Which of the following alcohols are readily oxidized to give carboxylic	acids an reacting with $K_2Cr_2O_7$
? 	
 a) Primary b) Secondary c) Tertiary d) Dioles 231) AlkyI nitriles can be prepared by treating alkyI halides with alcoholic. 	
a) Calcium cyanide b) Potassium cyanide c) Phosphorous cyanided) Calcium ca	rbide
232) In the formation of ester from carboxylic acids , the -OH group is repla	
a) -R b) -COOR c) −OR 🗸 d) -COR	
233) Acetaldehyde and acetic acid can be distinguished with .	
a) Na ₂ SO ₄ b) NaOH c) AgNO ₃ + NH ₄ OH ✔ d) Help of litmus 234) Slight oxidation of primary alcohol gives .	
a) Ketone b) Organic acid 🗸 c) Aldehyde d) An ester	
235) Crboxylic acids are dehydrated on heating strongly in the presence of .	
a) Al_2O_3b) P_2O_5 \checkmark c) Conc. H_2SO_4 d) Fe_2O_3	
236) The reactivity of carboxylic acid is due to presence. a) Carbolic acid b) Carboxyl group ✓ c) Both A & B d) None of these	
237) The carboxyI group shows the chemistry of both carboxyI and	groups.
a) Hydroxyl ✓ b) Acetyl acid c) Carboxylic acid d) None of these	угопро г
238) The carbon atom of a carboxyI group is hybridized .	
a) sp b) sp ₂ \checkmark c) sp ₃ d) sp ₄	
239) Which of the following reactions involves displacement of OH group of a) RCOOH + Na → b) RCOOH + NaHCO3 → c) RCOOH + NaOH → d) RCOOH + RCOOH + d) RCOOH + RCOOH + d) RCOOH +	-
240) The flavor of octylacetate is .	7011 + 1 013
a) Orange 🗸 b) Apricot c) Banana d) Jasmine	
241) Ester benzyI acetate has the flavour	
a) Orange b) Jasmine 🗸 c) Apricot d) Banana	
242) Which of the following ester has banana flavour? a) Ethyl butyrate b) Octyl acetate c) Amyl acetate d) Butyl aceta	ate
243) Amylacetate has the flavor of .	
a) Apricot b) Banana 🗸 c) Orange d) Jasmine	
244) A carboxylic Acid is treated with lime water, the product is distilled in	dry state , if forms acetone ,
the carboxylic acid is a) HCOOH b) CH₃COOH ✓ c) Propionic acid d) Succinic acid	
245) Vinegar is dilute solution of Acetic Acid.	
a) 1 - 5 % b) 4 - 10 % 🗸 c) 10 - 15 % d) 10 - 20 %	
246) Acetic Acid is obtained when .	
 a) Methanol is oxidized b) Ethanol is oxidized	s termented
a) Monomer b) Dimer c) Trimer 🗸 d) Polymer	
248) Acetic acid exists as dimer in benzene due to .	
a) Presence of hydrogen at $lpha$ -carbon b) Presence of carboxylic group c) Condensati	ion reaction d) Hydrogen
bonding \checkmark 249) Two moles of acetic acid are heated with P_2O_5 . The product formed is .	
a) Butanoic Acid b) Acetic Anhydride \(\varPhi\) c) Ethanol d) Ethanal	
250) Acetic Acid reacts with LiAIH4 to give .	
a) C_2H_6 b) C_3H_7OH c) C_6H_5 - CH_2 - OH d) C_2H_5OH	
251) When aqueous solution of potassium salt of acetic acid is electrolyzed t	he gas produced is .
a) Methane b) Ethane 🗸 c) Ethene d) Ethyne 252) The reaction of acetic acid with sodium metal gives.	
a) CO b) CO ₂ c) HCHO d) H ₂ \checkmark	
253) Acetic acid was first isolated from .	
a) Butter b) Vinegar ✔ c) Milk d) Red ant	
254) The nutrients which are required in very small amount for the growth of the growt	=
 a) Macronutrients b) Essential nutrients c) Micronuttrients d) Non-essen 255) Which of the following fertilizers contains 46\gamma N? 	tiai iiutiieiits
a) NH ₃ b) (NH ₂) ₂ CO \checkmark c) NH ₄ NO ₃ d) KNO ₃	
256) Which of the following is a macronutrient .	
a) Iron b) Zinc c) Chlorine d) Calcium 🗸	
257) Good fertilizer must be . a) Cheap ✓ b) Expensive c) Both A & B d) None of these	
258) Good fertilizer must be soluble in .	
a) Water 🗸 b) Alcohol c) Ether d) None of these	
259) One of the following is orgillaceous material.	
a) Clay b) Marble c) Marine shell 🗸 d) Lime 260) Cement was introduced by mason.	

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CHEMISTRY 2ND YEAR GUESS PAPER ACCORDING TO ALP

a) D.H, Whove b) Humphy Davy

c) Joseph Aspdin 🗸

d) Friedrick Mieschar

261) The diameter of rotary kiln in the manufacture of cement is .

a) 1 to 2 feet b) 2 to 4 feet c) 4 to 8 feet d) 8 to 15 feet 🗸

262) The length of rotary Kiln in manufacture of cement is .

a) 100 - 300 ft b) 100 - 200 ft c) 300 - 500 ft 🗸

263) The percentage of gypsum in cement is .

c) 3 % d) 5 % a) 2 % 🗸 b) 10 %

264) Setting process of cement is based upon.

d) Hydrolysis and hydration 🗸 a) Hydrolysis b) Dehydration c) Hydration

265) The percentage of Silica in cement is .

a) 62 % b) 22 % 🗸 c) 7.5 % d) 50 %

266) The main function of burning in rotary kiln is .

a) To reduce the impurities b) Combination of different oxides like CaO, SiO₂, Fe₂O₃ and Al₂O₃ ✓ c) To dry the moisture of slurry d) To decompose limestone to unslaked lime

267) Which of the following substances has greater percentage in cement?

a) MgO b) Al₂O₃ c) CaO 🗸 d) SiO₂

268) The percentage of alumina in potraind cement is .

a) 22 %

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b) 3.5 % c) 2.5 % d) 7.5 % 🗸

.NO.2 (CH # 1,2,3,4

- The first electron affinity of oxygen is in negative sign but the second one is positive Why?
- 2. Diamond is a non-conductor but graphite is a good conductor Why?
- 3. Why oxidation number of noble gases is usually zero?
- 4. Why the metals are good conductors?
- Give reason that hydration energy of Al³⁺ ions more than Mg²⁺ ions? 5.
- Define hydration energy with an example?
- 7. Define "Electron Affinity" Why second electron affinity value is positive?
- Hydration energy of the following ions are in the order Explain Al⁺³>Mg⁺²>Na⁺ 8.
- Why the ionic radius of a positive ion is smaller than that of its neutral atom?
- 10. Why first ionization energy of Mg is greater than that of Na?
- 11. Why size of an anion is always greater to that of its parent atom?
- **12.** How does hydrogen resemble with alakali metals?
- 13. Give any two resemblances of hydrogen with group IV-A
- 14. Give four points in which Lithium differ from its own family members
- **15.** Write formulas of Borax and Chile saltpeter?
- 16. Give two similar properties of Lithium and Magnesium
- 17. Write chemical formulas of the following metals? (i) Beryl (ii) Barite
- 18. Write formulas of Beryl and Sylvite
- 19. What happens when? (i) Lithium hydride is treated with water (ii) lithium carbonate is heated
- 20. What happens when: i) Li₂CO₂ is heated ii) Na₂CO₃ is heated
- 21. Write down formulae of the minerals: a) Dolomite b) Asbestos
- 22. What are advantages of Down's cell for the preparation of sodium on commercial scale?
- 23. What are the two major problems faced during the working of diaphragm cell?
- 24. Write four uses of Borax?
- **25.** What is chemistry of Borax bead test?
- **26.** How does H₃BO₃ act as an acid?
- 27. What is Borax bead Test?
- 28. Justify the solubility of borax changes with temperature
- 29. What are uses of Boric acids?
- **30.** Why boric acid can't be titrated by NaOH?
- **31.** What is effect of Heat on Boric acid?
- **32.** How Aluminum reacts with aqueous sodium hydroxide?
- **33.** Give any four uses of Aluminum
- **34.** Aluminum sheets are said to be corrosion free Why?
- 35. Aluminum when burn in oxygen an intense white light is produced Explain
- 36. Give two similarities between carbon and silicon's?
- 37. Write formula of the following ores (i) Talc (ii) Zircon
- **38.** How does NO act as oxidizing agent?
- **39.** What happens when N₂O is dissolved in water?
- **40.** How HNO₃ can be prepared in the laboratory?
- **41.** Write four used of HNO₃?

ACCORDING TO ALP

- **42.** How does HNO₂ acts as a reducing agent?
- 43. What is Aqua Regia? How does it dissolve noble metals?
- 44. Give the reaction of HNO₃ with carbon and sulphur
- 45. Why dinitrogen oxide is called Laughing gas?
- **46.** What is the effect of dil HNO₃ on: (a) Mg (b) Cu
- **47.** What is meant by fuming nitric acid?
- 48. Write two reactions for the preparation of phosphorus acid
- 49. Give definition of allotropy. Write allotropes of phosphoric
- **50.** How H₃PO₄ is prepared on large scale?
- **51.** P_2O_5 is powerful dehydrating agent Justify it with two chemical equations
- **52.** Give reaction of P_2O_5 with (a) HNO_3 (b) C_2H_5OH
- **53.** Give reaction of P₂O₅ with cold and hot water
- **54.** How does P_2O_3 react with water in cold and hot states?
- 55. Orthophosphoric acid is a weak tribasic acid Prove it giving reactions with NaOH
- **56.** Write two points of differences between Red and White Phosphorus
- 57. Write down two chemical equations which show that H₂SO₄ is dehydrating agent
- **58.** Write two SO₃ dissolved in H₂SO₄ and not in water?
- 59. Give reactions of conc H₂SO₂ with oxalic acid and formic acid
- **60.** H2SO4 acts as an oxidizing agent. Write two reactions
- **61.** Justify that H₂SO₄ is king of chemicals
- 62. Why SO₃ gas is dissolved in H2SO₄ but not in water in contact process
- 63. How does H₂SO₄ react with: (a) Zn (b) Cu
- 64. What are micronutrients and macronutrients?
- 65. What are micronutrients required for proper growth of plants?
- **66.** What is the role of potassium in growth of plants?
- **67.** How urea is prepared from Ammonia?
- 68. What do you mean by prilling of urea?
- 69. What is the importance of Potassium Fertilizer?
- 70. Give significance of potash fertilizer

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- 71. Define DAP. Write reaction for its preparation
- 72. What is the role of phosphorus in proper growth of plants?
- 73. How NH3 is given to the plants? Give its composition
- 74. What is Cement? Which raw materials are used for its preparation?
- 75. What is difference between Clinker and Cement?
- 76. Describe the average composition of Portland cement
- **77.** Define clinker How it is converted to cement?
- 78. Explain reactions taking place in first 24-hours during setting of cement
- **79.** What is meant by setting of Cement?
- 80. How Portland cement is made? Why gypsum is added in the cement?

Q.NO.3 (CH # 5,6,9,12,13)

- 1. Why HF is a weak acid than other Halogens acids?
- 2. Give reason why fluorine is gas iodine is solid?
- 3. How does fluorine differ from its family members?
- 4. Describe two uses of helium.
- 5. Halogens are strong oxidizing agents justify.
- 6. Why oxidizing power of F2 is higher than other halogens?
- 7. Why Iodine has metallic luster?
- 8. HF is a weak acid. Why?
- 9. Write four uses of Bleaching powder.
- 10. Write four properties of hydrogen fluoride.
- 11. Describe H-Bonding in HF molecule.
- 12. What is halothane? Give its two uses.
- 13. Reaction of Cl₂ with aqueous solution of NaOH at 15°C is a disproportionation reaction. Justify.
- 14. Perchloric acid is considered as a valuable analytical reagent. Why?
- 15. Write any two important applications of helium.
- 16. How bleaching powder can act as an oxidizing agent?
- 17. Give reaction of bleaching powder with NH₃ and HCl.

ACCORDING TO ALP

- 18. Write four uses of Halogen.
- 19. What is bleaching powder? How it is prepared?
- 20. What are Freons and Teflon?
- **21.** How XeF_2 and XeF_4 can be prepared?
- **22.** Complete the following reaction. (a) $XeF_4 + NH_3 \rightarrow ?$ (b) $XeF_4 + Hg \rightarrow ?$
- 23. Write down the reaction of chlorine with cold and hot NaOH.
- **24.** Give reason oxidation powder of halogens increase $F_2 > Cl_2 > Br_2 > I_2$
- **25.** Complete the following reactions. (a) $CaOCl_2 + H_2SO_4 \rightarrow ?$ (b) $CaOCl_2 + 2HCl \rightarrow ?$
- 26. What are the various allotropic forms of Group VIA elements of periodic table
- 27. HF is less viscous liquid than water. Why?
- 28. Write two uses of helium.
- **29.** Complete the following reactions: (a) KClO₄ (s) + H2SO₄ (conc.) \rightarrow (b) XeF₆ + H₂ \rightarrow
- **30.** Give two reactions to show H₂SO₄ as a dehydration agent.
- **31.** What are polycyclic aromatic hydro-carbons? Give two examples.
- 32. How Aromatic Hydrocarbons are classified?
- **33.** Write structural formula of: a) Nephthalene
- b) Diphenyl methane
- 34. Describe X-rays structure of Benzene.
- 35. How is the straight chain structure of benzene ruled out?
- 36. How will you prove that benzene has cyclic structure?
- **37.** What is aromatization?

- 38. How benzene is prepared from sodium benzoate and phenol?
- 39. What is Wurtz-Fitting reactions?
- **40.** What happens when benzene is heated with conc. H₂SO₄ at 80°C?
- **41.** Define meta-directing groups. Give two examples.
- 42. What does happen to benzene during Friedel Craft's reaction? Give mechanism of one reaction.
- **43.** Give the mechanism of Nitration of benzene.
- 44. What is the general pattern of reactivity of benzene towards electrophiles?
- **45.** What do you know about ozonolysis?
- 46. What happens when acidified KMnO₄ is added to methyl benzene and ethyl benzene?
- **47.** Why hydroxyl group (OH) is other and para directing group?
- 48. Benzene is less reactive than Alkene, why?
- **49.** What is difference between Aldehyde and Ketone?
- 50. How formaldehyde and acetaldehyde undergo polymerization?
- 51. How formalin is prepared on the commercial scale from methyl alcohol?
- **52.** How formaldehyde is prepared in laboratory?
- **53.** How will you distinguish between 2-pentanone and 3-pentanone?
- **54.** Give reactions of Aldehyde with HCN and CH₃ CH₂ OH.
- 55. How aldehyde react with hydrazine? Give its mechanism?
- **56.** What is "Haloform Reaction"? Give its uses.
- 57. Give the mechanism of Cannizzaro's reaction.
- **58.** Define aldol Condensation.
- 59. How aldehyde reacts with Ammonia derivative? Give its general mechanism?
- **60.** What are condensation reactions?
- **61.** Complete the reaction. i) CH₃CHO + C₂H₅OH to? ii) CH₃CHO + NH₂OH to?
- 62. Give the mechanism of addition of HCN to Acetone.
- **63.** How acetone is oxidized with $K_2Cr_2O_7 / H_2SO_4$?
- **64.** Justify that aldehydes with no \propto-hydrogen give Cannizaro's reaction.
- 65. Give mechanism of addition of HCN to acetaldehyde.
- 66. Discuss oxidation of Ketones with K2Cr2O7/H2SO4
- **67.** How will you prepare ethanaloxime from an aldehyde?
- 68. Why formaldehyde does not show Aldol Condensation?
- 69. What is iodoform test? Give two uses of it.
- 70. Write composition of Tollen's reagent? And which organic compounds are usually identified by it.
- 71. Why Tollen's test is also called silver mirror test?
- 72. What is sodium bisulphite test?
- 73. Discuss the reaction of an aldehyde with Tollen's reagent.
- **74.** What is silver mirror test? Give an example.
- 75. Write four important uses of Acetaldehyde.
- **76.** What happens when ammonium acetate is heated?
- 77. Write the formula of: a) Benzoic acid b) Pthalic acid
- 78. How is carboxylic prepared from Grignard's reagent?
- 79. How carboxylic acids are prepared by the oxidation of alkenes?
- 80. Why does mostly carboxylic acid exist as dimers?
- 81. Which ester gives banana and orange smell?
- 82. Write down mechanism of the reaction of SOCI2 with acetic acid.

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- 83. Write the mechanism of reaction between acetic acid and Ammonia.
- 84. How acetic acid reacts with: a) PCI₅ b) SOCI₂
- **85.** Write equation for reaction of acetic acid with sodium carbonate.
- 86. How acetic acid is converted into ethanol?
- 87. How will you convert acetic acid into methane?
- 88. What is vinegar? How is it prepared from ethyl alcohol?

<u>Q.NO.4 (CH # 1,2,3,4,15)</u>

- Define catenation.
- 2. What do you know about cracking of petroleum? Explain.
- 3. Differential between Homocyclic or Heterocyclic compounds.
- 4. What are Alicyclic compounds? Give two examples.
- 5. What are homocyclic compounds? Give two examples.
- **6.** What are Amines and Imines? Give one example of each.
- 7. Define functional group. Give two examples of oxygen containing functional group.
- 8. Draw the structure of C₂H₅ and indicate bond angles?
- **9.** Define the terms: a) Fractional Distillation b) Hybridization
- 10. Define metamerism with example.
- 11. Explain geometrical isomerism with example.
- 12. What are Isomerse and Tautomers?
- 13. Describe position isomerism with example.
- 14. What are the conditions for cis-trans isomerism?
- 15. 1-Butane does not show cis-trans isomerism but 2-butene does. Justify the statement.
- **16.** Why compounds containing (C=C) bond show geometric isomerism?
- 17. Define Cis-Trans Isomerism. Give one example.
- 18. Alkanes are less reactive than Alkenes, comment.
- 19. How methane is converted to formic acid.
- 20. Give four uses of methane.

- 21. What is heat of combustion?
- 22. What is Baeyer's test to check the presence of carbon-carbon double bond?
- 23. What are clemmensen and Wolf-Kishner reduction reactions? How they differ?
- 24. Write down mechanism for the Kolbe's electrolytic method for the preparation of alkanes.
- 25. What is Raney-Nickel? Where it is prepared?
- **26.** What is catalytic hydrogenation? Give an example.
- 27. Give four uses of ethene.
- 28. Give mechanism of bromination of ethene.
- **29.** Write chemical reaction for the preparation of propene from: (i) CH₃-CH₂-CH₂-Br (ii) CH₃-CH₂-CH₂-OH
- **30.** Why alkenes are called elefins?
- **31.** Give four uses of Ethyne?
- 32. What is polymerization? How high quality polyethene is prepared from ethene?
- 33. How does Acetylene react with HBr?
- **34.** Give reactions of HCN and NH₃ with CH = CH. Also mention Reaction Conditions?
- 35. How Ethyne is prepared on Industrial Scale?
- **36.** What is hydrogenolysis? Give an example.
- 37. Why alkanes are less reactive organic compounds?
- 38. What happens when vic-dihalide is treated with Zn-dust?
- **39.** When double bond and triple bonds are present in a compound, how are they named?
- **40.** Write down structural formula of: a) Vinyl chloride b) Vinyl Cyanide
- 41. Why does Alkane show least-reactivity?
- 42. How would you prepare acetone from propyne?
- 43. Write two identification tests of 1-alkynes.
- 44. Benzene is polymer of acetylene. Justify.
- **45.** Distinguish ethene from ethyne by a chemical reaction.
- 46. Why alkynes are slightly acidic in nature? Justify with an example.
- **47.** What are primary and tertiary alkyl halides? Give one example each.
- 48. Define primary alkyl halide and secondary alkyl halide with one example.
- **49.** Give reactions of ethyl bromide with a) CH₃COONa b) Zn / HBr
- **50.** How does ethyl alcohol react with H₂SO₄ in two different ways?
- 51. Give an excellent method to preparation simple Alkyl Iodide.52. Describe the best method for preparation of alkyl halides.
- **53.** Give mechanism of SN₁ reactions.
- **54.** Give only mechanism for SN_2 reactions.
- 55. What is leaving group and substrate?
- **56.** Why does SN₂ mechanism give a product with inversion of configuration? Show with one reaction.

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- **57.** Convert ethyl bromide into: i) Ethane b) n-Butane
- **58.** Define nucleophile and substrate with an example.
- **59.** Describe mechanism of E_2 reactions of alkyl halide.
- **60.** Describe the mechanism of E1 reaction.
- **61.** How does alkyl halide react with sodium lead alloy?
- **62.** Distinction between alcohol (CH_3CH_2OH) and Phenol ($C_6H_5 OH$).
- **63.** Ethyl alcohol is a liquid while methyl chloride is a gas. Give reason.
- 64. Prepare each of following compounds from acetaldehyde: a) Lactic acid b) Acetic acid
- 65. Write structural formula of the compounds. i) Carbolic acid ii) Glycerol
- **66.** Write the name and structures of two polyhydric or Polyhydroxy alcohols.
- 67. 1What is difference between Monohydric and polyhydric alcohols? Give one example of each.
- 68. Define fermentation, give its conditions.
- **69.** Absolute alcohol cannot be prepared by fermentation process. Why?
- 70. Ethanol gives different products with conc. H2SO4 under different conditions. Justify it.
- **71.** Write equation for reactions of C₂H₅OH with PBr₃, PCI5
- 72. Give oxidation of primary and secondary alcohols.
- 73. How wood-spirit is prepared from water gas?
- 74. Ethanol has higher boiling point than diethyl ether. Give reason.
- 75. What is rectified spirit? How is absolute alcohol obtained from it?
- **76.** Distinction between methanol (CH₃OH) and ethanol (CH₃CH₂OH).
- 77. What is Lucas test?

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- 78. Give any four uses of methyl alcohol.
- 79. Give reaction of: i) Phenol with zinc ii) Benzene with SO₃.
- 80. Prepare the following compounds from phenol: i) 2,4,6-Trinitro phenol ii) Benzene
- 81. Give reaction of phenol with: a) Bromine water b) Conc. H₂SO₄
- 82. Describe method for preparation of phenol from sodium salt of benzene sulphonic acid.
- 83. Phenol behaves as an acid, explain.
- 84. How phenol can be converted into Benzene?
- 85. How does picric acid synthesis take place?
- **86.** Give the reactions of phenol with conc. H₂SO₄ and acetyl chloride.

LONG Q.NO.5

- 1. What is Mendeleev's periodic table? Discuss improvements in Mendeleev's periodic table.
- 2. Explain the position of hydrogen over its group of periodic table with two similarities and two differences.
- 3. Discuss the position of hydrogen over VII-A group elements.
- **4.** Explain similarities of hydrogen with halogens and dissimilarities with alkali metals.
- 5. Why hydrogen cannot be placed above alkali metals and halogens?
- 6. Give eight points of differences between Lithium and other members of the family?
- 7. Describe the process for the preparation of sodium metal on industrial scale by Down's cell? What are advantages of this process?
- 8. Describe the two problems involved in the manufacture of caustic soda by Nelson cell and how these problems are solved.
- 9. Describe the commercial preparation of sodium hydroxide by Diaphragm cell with diagram.

LONG Q.NO.6

- 1. What happen when dil HNO₃ and Cinc. HNO₃ react with Cu, Hg, Sn and Zn.
- 2. Write equation for the reaction of Conc. HNO₃ with: (i) HI (ii) Sn (iii) Cu (iv) Zn
- **3.** Describe Birkeland and Eyde's process for the manufacture of Nitric acid.
- **4.** Describe eight points of similarities of oxygen and Sulphur.
- **5.** Give four reactions of H_2SO_4 as an acid.
- 6. How sulphuric acid is manufactured by contact process on industrial scale.

<u>LONG Q.NO.7</u>

- 1. What is cracking of petroleum? Explain any two ways in which cracking is carried out?
- **2.** What is orbital hybridization? Explain SP-hybridization of carbon.
- 3. What is orbital hybridization explain sp₃-hybridization with the formation of CH₂= CH₂.
- **4.** What is Isomerism? Discuss position Isomerism and geometrical Isomerism.
- **5.** Write laboratory and industrial preparation of acetaldehyde.
- **6.** Write a note on Cannizzaro's reactions.

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- 7. Describe the mechanism of aldol condensation.
- **8.** Write a brief note on haloform reaction.
- **9.** Describe mechanism for i) Cannizato's reaction ii) Aldehyde with NH₂ OH.
- **10.** How acid and base catalyse the nucleophilic addition reactions of carbon compounds? Give general mechanism of each reaction.

LONG Q.NO.8

- 1. What do you mean by saturated and unsaturated hydrocarbons? How there are distinguished chemically? How these are distinguished chemically?
- 2. 2.Describe with examples the acidic nature of alkynes.
- 3. 9. Define polymerization, explain polymerization reaction of acetylene.
- 4. 14. Give comparison of Reactivates of Alkenes, Alkenes and Alkynes.
- 5. 29. Write four methods for the preparation of Alkenes.
- 6. 39. Prepare Ethane from Kolbe's Electrolytic method, Write down its mechanism.
- 7. 41. Explain with equation how alkenes can be prepared from Acid and Grignard's reagents.
- 8. 42. Write uses of Methane.
- 9. 45. How the presence of double bond is detected by using Baeyre's reagent?
- 10. 49. Define alkyl halide. Give three methods to prepare them from alcohols.
- **11.** 50.Compare E_2 and E_1 mechanism for β -Elimination reactions?
- 12. 52. Differentiate between SN1 and SN2 reactions.

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- L. What are Aromatic Hydrocarbons? How are they classified?
- 2. Define alicyclic compounds and aromatic compounds with one example in each case.
- 3. What is resonance? Explain the structure of benzene on the basis of resonance.
- **4.** Explain Stability of benzene.
- 5. Discuss two Industrial and two laboratory methods to prepare Benzene.
- 6. What are Friedel-Crafts Reactions? Explain mechanism of alkylation and Acylation of Benzene.
- 7. Write chemical reactions for preparation of ethanol from Molasses and Starch.
- 8. Describe industrial preparation of ethanol. How will you distinguish between ethanol?
- **9.** How is Methyl alcohol obtained on large scale from water gas? Draw diagram also.
- 10. What is Lucas test? How will you distinguish between primary, secondary and tertiary alcohols by this test?
- 11. Write two methods for preparation of phenol, how phenol reacts with Conc. HNO₃ and Bromine water
- 12. Describe acidic behavior of phenol. How does phenol react with alkali to give salt?
- 13. Write down Dow's method for preparing phenol. What is action of following on phenol:
- i) Bromine water ii) HNO₃ at different temperatures

May all your hard works before the exam be rewarded with the best. May you obtain the highest marks and your success be continued.



نوٹ: اپنے ادارے کے لوگواور نام کے ساتھ نوٹس بنوانے کے لئے ابھی رابطہ کریں (مشکر ہے)